

Tgrease[™] **1500 Series** Thermal Grease

Innovative **Technology** for a **Connected** World



Tgrease[™] 1500 SERIES SOLVES OVERHEATING AND RELIABILITY ISSUES

Tgrease[™] 1500 is environmentally safe silicone-based thermal grease designed to solve overheating and reliability issues.

Due to its proprietary silicone filler matrix, Tgrease 1500 thoroughly wets out contact surfaces to create a low thermal resistance of 0.021 °C-in2/W at 50 psi.

Tgrease 1500 can be used in pneumatic dispensing and screen printing systems.

Tgrease 1500 is available in 1kg (pint container), 2kg (quart container), and 7kg (gallon container) or custom packaged in syringes for automated applications.

FEATURES AND BENEFITS

- Environmentally safe
- Thoroughly wets out contact surfaces to create low thermal resistance
- Available in 1/2kg, 1kg, 3kg, 7kg, 20kg bulk container, and 10cc, 30cc syringe

APPLICATIONS

- Microprocessors
- Chipsets
- Graphic processing chips
- Custom ASICS
- IGBT
- TO220, TO240, and other standard packages
- Power supplies

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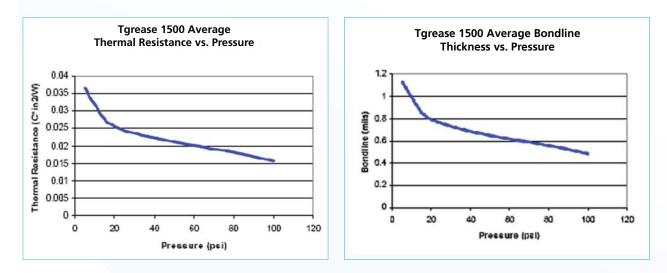
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| TYPICAL PROPERTIES | TGREASE [™] 1500 | TEST METHOD |
|---|-------------------------------------|--|
| Color | White | Visual |
| Density | 2.6 g/cc | |
| Viscosity @ 22°C | 1.5 x 10 ⁶ | Brookfield DV-II+ Spindle –T-F; Speed 2rpm |
| Maximum Operating Temperature | 125°C | |
| Outgassing (TML) | 0.79% | ASTM E595 |
| Outgassing (CVCM) | 0.12% | ASTM E595 |
| UL Flammability Rating | Pending | |
| Thermal Conductivity | 1.2 W/mK | Hot Disk Thermal Constants Analyzer |
| Thermal Resistance @ 50 psi @ 344.7 KPa | 0.021 °C-in²/W 0.135 °C-cm²/W | ASTM D5470 (modified) ASTM D5470 (modified) |
| Volume Resistivity | 7 x 10 ¹¹ @ 100 volts DC | ASTM D257 |
| Dielectric Constant @ 1KHz/1MHz | 5.9 / 5.8 | ASTM D150 |



Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

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